

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1 (currently amended): A system for transmitting messages from a client messaging application to an autonomous computer program that acts as an agent for another program a third-party-application, the system comprising:

a first interface mutually registered with at least one of a plurality of client messaging applications, the interface for performing the steps of:

receiving a message from the at least one of the plurality of client messaging applications; and

translating a calling convention of the message to a calling convention of a base code;

a computer communicatively coupled to the first interface, the computer for performing the steps of:

determining the destination of the message, wherein the destination is an autonomous computer program that acts as an agent for another program a third-party-application; and

selecting the autonomous computer program third-party-application determined to be the destination of the message; and

a second interface coupled to the computer, the second interface for performing the steps of:

translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program third-party-application determined to be the destination of the message; and

transmitting, in response to the translating, the message to the selected autonomous computer program third-party-application determined to be the

destination of the message without further user intervention.

2 (previously amended): The system of claim 1, wherein the receiving step comprises:  
receiving a message from a client messaging application via the interface,  
wherein the message includes a request for information.

3 (cancelled)

4 (currently amended): The system of claim 2, further comprising:  
at the second interface, further performing the steps of:  
receiving information from the autonomous computer program ~~third-party~~  
application in a return message; and  
translating a calling convention of the return message to the calling  
convention of the base code;  
at the computer, further performing the step of:  
determining the destination of the return message, wherein the destination  
is a client messaging application; and  
at the first interface, further performing the steps of:  
selecting the client messaging application determined to be the  
destination of the message;  
translating the calling convention of the message in the base code to the  
calling convention of the selected client messaging application determined to be  
the destination of the message; and  
transmitting the message to the client messaging application determined  
to be the destination of the message.

5 (cancelled)

6 (currently amended): The system of claim 1, wherein the first interface comprises:  
An Application Programming Interface API for interfacing with a plurality of  
mutually registered client messaging applications and for registering with at least one of

the plurality of client messaging applications.

7 (currently amended): The system of claim 4, wherein the second interface comprises:  
an Application Programming Interface API for translating the request for information to the autonomous computer program third-party-application and for translating the return message to the computer.

8 (previously amended): The system of claim 1, wherein the client messaging application comprises an instant messaging application for sending and receiving instant messages.

9 (previously amended): The system of claim 8, wherein the instant messaging application comprises any one of:

- Lotus Sametime Messaging;
- America Online Instant Messenger;
- MSN Messenger Service;
- Yahoo Messenger;
- ICQ;
- Jabber Instant Messaging; and
- a Telnet utility.

10 (currently amended): The system of claim 1, wherein the autonomous computer program third-party-application comprises a messaging server.

11 (previously amended): The system of claim 10, wherein the messaging server comprises any one of:

- an IBM MQSeries server;
- a Microsoft Transaction server;
- a Lotus Domino server; and
- an LDAP utility.

12 (currently amended): The system of claim 4, wherein the autonomous computer program ~~third-party application~~ retrieves the requested information from any one of:

- a personal finance database;
- a stock market database;
- a personal contact database;
- a web site;
- an FTP site; and
- a gopher site.

13 (currently amended): A system for transmitting messages from a client messaging application to a plurality of autonomous computer programs that act as agents for other programs ~~third-party applications~~, the system comprising:

- a first interface connected to and mutually registered with a client messaging application, the client messaging application for performing the steps of:

- receiving a message from the client messaging application via the interface; and

- translating a calling convention of the message to a calling convention of a base code;

- a computer communicatively coupled to the first interface, the computer for performing the steps of:

- determining the destination of the message, wherein the destination is one of a plurality of autonomous computer programs that act as agents for other programs ~~third-party applications~~; and

- selecting an autonomous computer program ~~a third-party application~~ from the plurality of autonomous computer programs ~~third-party applications~~ determined to be the destination of the message; and

- a second interface connected to the computer, the second interface for performing the steps of:

- translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program ~~third-party application~~; and

transmitting, in response to the translating, the message to the autonomous computer program ~~third-party application~~ determined to be the destination of the message.

14 (previously amended): The system of claim 13, wherein the message includes a request for information.

15 (cancelled)

16 (currently amended): The system of claim 13, further comprising:

at the second interface, further performing the steps of:

receiving information from the autonomous computer program ~~third-party application~~ in a return message; and

translating a calling convention of the return message to the calling convention of the base code;

at the computer, further performing the step of:

determining the destination of the return message, wherein the destination is the client messaging application; and

at the first interface, further performing the steps of:

selecting the client messaging application determined to be the destination of the message;

translating the message in the calling convention of the base code to the calling convention of the selected client messaging application determined to be the destination of the message; and

transmitting the message to the client messaging application determined to be the destination of the message.

17 (cancelled)

18 (currently amended): The system of claim 13, wherein the first interface comprises: an Application Programming Interface API for interfacing with the client

messaging application and for registering with the plurality of client messaging application.

19 (currently amended): The system of claim 16, wherein the second interface comprises:

an Application Programming Interface API for translating the request for information to the autonomous computer program ~~third-party application~~ determined to be the destination of the message and for translating the return message to the computer.

20 (previously amended): The system of claim 13, wherein the client messaging application comprises an instant messaging application for sending and receiving instant messages.

21 (previously amended): The system of claim 20, wherein the instant messaging application comprises any one of:

Lotus Sametime Messaging;  
America Online Instant Messenger;  
MSN Messenger Service;  
Yahoo Messenger;  
ICQ;  
Jabber Instant Messaging; and  
a Telnet utility.

22 (currently amended): The system of claim 13, wherein each of the plurality of autonomous computer programs ~~third-party applications~~ comprise a messaging server.

23 (previously amended): The system of claim 22, wherein the messaging server comprises any one of:

an IBM MQSeries server;  
a Microsoft Transaction server;

a Lotus Domino server; and  
an LDAP utility.

24 (currently amended): The system of claim 16, wherein each of the plurality of autonomous computer programs ~~third-party applications~~ retrieve the requested information from any one of:

- a personal finance database;
- a stock market database;
- a personal contact database;
- a web site;
- an FTP site; and
- a gopher site.

25 (currently amended): A system for transmitting messages from a plurality of client messaging applications to a plurality of autonomous computer programs that act as an agent for other programs ~~third-party applications~~, the system comprising:

- a first interface mutually registered with at least one of a plurality of client messaging applications, the first interface for performing the steps of:

- receiving a message from the at least one of the plurality of client messaging applications; and

- translating a calling convention of the message to a calling convention of a base code;

- a computer communicatively coupled to the first interface, the computer for performing the steps of:

- determining the destination of the message, wherein the destination is one of a plurality of autonomous computer programs that act as an agent for other programs ~~third-party applications~~; and

- selecting one of a plurality of autonomous computer programs ~~third party applications~~ determined to be the destination of the message; and

- a second interface coupled to the computer, the second interface for performing the steps of:

translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program ~~third-party application~~ determined to be the destination of the message; and

transmitting, in response to the translating, the message to the selected autonomous computer program ~~third-party application~~ determined to be the destination of the message without user intervention.

26 (previously amended): The system of claim 25, wherein the message includes a request for information.

27 (cancelled)

28 (currently amended): The system of claim 26, further comprising:

at the second interface, further performing the steps of:

receiving information from the autonomous computer program ~~third-party application~~ in a return message; and

translating a calling convention of the return message to the calling convention of the base code;

at the computer, further performing the steps of:

determining the destination of the return message, wherein the destination is one of a plurality of client messaging applications; and

selecting the client messaging application determined to be the destination of the message; and

at the first interface, further performing the steps of:

translating the message in the calling convention of the base code to the calling convention of the selected client messaging application determined to be the destination of the message; and

transmitting the message to the client messaging application determined to be the destination of the message.



29 (cancelled)

30 (currently amended): The system of claim 25, wherein the first interface comprises:

an Application Programming Interface API for interfacing with a plurality of mutually registered client messaging applications and for registering with at least one of the plurality of client messaging applications.

31 (currently amended): The system of claim 28, wherein the second interface comprises:

an Application Programming Interface API for translating the request for information to the autonomous computer program ~~third-party application~~ determined to be the destination of the message and for translating the return message to the computer.

32 (previously amended): The system of claim 25, wherein each of the plurality of client messaging applications comprise an instant messaging application for sending and receiving instant messages.

33 (previously amended): The system of claim 32, wherein the instant messaging application comprises any one of:

Lotus Sametime Messaging;  
America Online Instant Messenger;  
MSN Messenger Service;  
Yahoo Messenger;  
ICQ;  
Jabber Instant Messaging; and  
a Telnet utility.

34 (currently amended): The system of claim 25, wherein each of the plurality of autonomous computer programs ~~third-party applications~~ comprise a messaging server.

35 (previously amended): The system of claim 34, wherein the messaging server comprises any one of:

- an IBM MQSeries server;
- a Microsoft Transaction server;
- a Lotus Domino server; and
- an LDAP utility.

36 (currently amended): The system of claim 28, wherein each of the plurality of autonomous computer programs ~~third-party applications~~ retrieve the requested information from any one of:

- a personal finance database;
- a stock market database;
- a personal contact database;
- a web site;
- an FTP site; and
- a gopher site.

37 (currently amended): A method for transmitting messages from a client messaging application to an autonomous computer program that acts as an agent for another program ~~a third-party application~~, the method comprising the steps of:

- receiving a message from one of a plurality of client messaging applications;
- translating a calling convention of the message to a calling convention of a base code;

- determining a destination of the message, wherein the destination is an autonomous computer program that acts as an agent for another program ~~a third-party application~~;

- translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program ~~third-party application~~ determined to be the destination of the message; and

- transmitting, in response to the translating, the message to the selected autonomous computer program ~~third-party application~~ determined to be the destination

of the message without user intervention.

38 (previously amended): The method of claim 37, wherein the receiving step comprises:

receiving a message from one of a plurality of client messaging applications, wherein the message includes a request for information.

39 (cancelled)

40 (currently amended): The method of claim 37, further comprising:

at the second interface, further performing the steps of:

receiving information from the autonomous computer program third-party application in a return message; and

translating a calling convention of the return message to the calling convention of the base code;

at the computer, further performing the steps of:

determining the destination of the return message, wherein the destination is one of a plurality of client messaging applications; and

selecting the client messaging application determined to be the destination of the message;

translating the message in the calling convention of the base code to the calling convention of the selected client messaging application determined to be the destination of the message; and

transmitting the message to the client messaging application determined to be the destination of the message.

41 (cancelled)

42 (currently amended): The method of claim 37, wherein the first receiving step comprises:

receiving, via an Application Programming Interface API, a message from one of

a plurality of client messaging applications, wherein the Application Programming Interface API interfaces with the plurality of mutually registered client messaging applications and registers with at least one of the plurality of client messaging applications.

43 (currently amended): The method of claim 40, wherein the translation is performed by an Application Programming Interface API.

44 (currently amended): The method of claim 43, further comprising a step before the second transmitting step of:

translating, by the Application Programming Interface API, the return message to the client messaging application.

45 (previously amended): The method of claim 37, wherein each of the plurality of client messaging applications comprise an instant messaging application for sending and receiving instant messages.

46 (previously amended): The method of claim 45, wherein the instant messaging application comprises any one of:

Lotus Sametime Messaging;  
America Online Instant Messenger;  
MSN Messenger Service;  
Yahoo Messenger;  
ICQ;  
Jabber Instant Messaging; and  
a Telnet utility.

47 (currently amended): The method of claim 37, wherein the autonomous computer program ~~third-party application~~ comprises a messaging server.

48 (previously amended): The method of claim 47, wherein the messaging server

comprises any one of:

- an IBM MQSeries server;
- a Microsoft Transaction server;
- a Lotus Domino server; and
- an LDAP utility.

49 (currently amended): The method of claim 40, wherein the autonomous computer program ~~third-party-application~~ retrieves the requested information from any one of:

- a personal finance database;
- a stock market database;
- a personal contact database;
- a web site;
- an FTP site; and
- a gopher site.

50 (currently amended): A method for transmitting messages from a client messaging application to an autonomous computer program that acts as an agent for another program ~~a third-party-application~~, comprising the steps of:

- receiving a message from at least one client messaging application;
- translating a calling convention of the message to a calling convention of a base code;

- determining a destination of the message, wherein the destination is one of a plurality of autonomous computer programs that act as an agent for other programs ~~third-party-applications~~;

- translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program ~~third-party~~ application determined to be the destination of the message; and

- transmitting, in response to the translating, the message to the selected autonomous computer program ~~third-party-application~~ determined to be the destination of the message without user intervention.

51 (currently amended): A method for transmitting messages from a client messaging application to an autonomous computer program that acts as an agent for another program ~~a third-party application~~, comprising the steps of:

receiving a message from one of a plurality of client messaging applications;

translating a calling convention of the message to a calling convention of a base code;

determining a destination of the message, wherein the destination is one of a plurality of autonomous computer programs that act as an agent for other programs ~~third-party applications~~;

translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program ~~third-party application~~ determined to be the destination of the message; and

transmitting, in response to the translating, the message to the selected autonomous computer program ~~third-party application~~ determined to be the destination of the message without user intervention.

52 (currently amended): A computer readable medium including computer instructions for transmitting messages from a plurality of client messaging applications to an autonomous computer program that acts as an agent for another program ~~a third-party application~~, the computer instructions comprising instructions for:

receiving a message from one of a plurality of client messaging applications;

translating a calling convention of the message to a calling convention of a base code;

determining a destination of the message, wherein the destination is a an autonomous computer program that acts as an agent for another program ~~a third-party application~~;

translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program ~~third-party application~~ determined to be the destination of the message; and

transmitting, in response to the translating, the message to the selected autonomous computer program ~~third-party application~~ determined to be the destination

of the message without user intervention.

53 (previously amended): The computer readable medium of claim 52, wherein the receiving instruction comprises:

- receiving a message from one of the plurality of client messaging applications, wherein the message includes a request for information.

54 (cancelled)

55 (currently amended): The computer readable medium of claim 53, further comprising instructions for:

- receiving information from the autonomous computer program ~~third-party~~ application in a return message;

- translating a calling convention of the return message to the calling convention of the base code;

- determining a destination of the return message, wherein the destination is one of the plurality of client messaging applications;

- selecting the client messaging application determined to be the destination of the message; and

- transmitting the message to the client messaging application determined to be the destination of the message.

56 (previously amended): The computer readable medium of claim 55, further comprising the instruction of:

- translating the base code calling convention of the return message to the calling convention of the client messaging application determined to be the destination of the message.

57 (currently amended): The computer readable medium of claim 52, wherein the first receiving step comprises:

- receiving, via an Application Programming Interface API, a message from one of

a plurality of client messaging applications, wherein the Application Programming Interface API interfaces with the plurality of mutually registered client messaging applications and registers with at least one of the plurality of client messaging applications.

58 (currently amended): The computer readable medium of claim 55, wherein the translation is performed by an Application Programming Interface API.

59 (currently amended): The computer readable medium of claim 58, further comprising a step before the second transmitting step of:

translating, by the Application Programming Interface API, the base code calling convention of the return message to the calling convention of the client messaging application determined to be the destination of the message.

60 (previously amended): The computer readable medium of claim 52, wherein the client messaging application comprises an instant messaging application for sending and receiving instant messages.

61 (previously amended): The computer readable medium of claim 60, wherein the instant messaging application comprises any one of:

Lotus Sametime Messaging;  
America Online Instant Messenger;  
MSN Messenger Service;  
Yahoo Messenger;  
ICQ;  
Jabber Instant Messaging; and  
a Telnet utility.

62 (currently amended): The computer readable medium of claim 52, wherein the autonomous computer program ~~third-party application~~ comprises a messaging server.



63 (previously amended): The computer readable medium of claim 62, wherein the messaging server comprises any one of:

- an IBM MQSeries server;
- a Microsoft Transaction server;
- a Lotus Domino server; and
- an LDAP utility.

64 (currently amended): The computer readable medium of claim 55, wherein the autonomous computer program ~~third-party application~~ retrieves the requested information from any one of:

- a personal finance database;
- a stock market database;
- a personal contact database;
- a web site;
- an FTP site; and
- a gopher site.

65 (currently amended): A computer readable medium including computer instructions for transmitting messages from a client messaging application to a plurality of autonomous computer programs that act as an agent for other programs ~~third-party applications~~, the computer instructions comprising instructions for:

- receiving a message from a client messaging application;
- translating a calling convention of the message to a calling convention of a base

code;

- determining a destination of the message, wherein the destination is one of the plurality of autonomous computer programs that act as an agent for other programs ~~third-party applications~~;

- translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program ~~third-party application~~ determined to be the destination of the message; and

- transmitting, in response to the translating, the message to the selected

autonomous computer program ~~third-party application~~ determined to be the destination of the message without user intervention.

66 (currently amended): A computer readable medium including computer instructions for transmitting messages from a plurality of client messaging applications to a plurality of autonomous computer programs that act as an agent for other programs ~~third-party applications~~, the computer instructions comprising instructions for:

receiving a message from at least one of a plurality of client messaging applications;

translating a calling convention of the message to a calling convention of a base code;

determining a destination of the message, wherein the destination is one of the plurality of autonomous computer programs that act as an agent for other programs ~~third-party applications~~;

translating, in response to the selecting, the message in the calling convention of the base code to a calling convention of the autonomous computer program ~~third-party application~~ determined to be the destination of the message; and

transmitting, in response to the translating, the message to the selected autonomous computer program ~~third-party application~~ determined to be the destination of the message without user intervention.

67 (currently amended): A method for providing access to an autonomous computer program that acts as an agent for another program ~~a third-party application~~ via an instant messaging application, comprising the steps of:

receiving from at least one instant messaging application an instant message including a request for information;

translating a calling convention of the instant message to a calling convention of a base code;

determining a destination of the instant message, wherein the destination is an autonomous computer program that acts as an agent for another program ~~a third-party application~~;

translating, in response to the selecting, the base code calling convention of the request for information in the instant message into a calling convention compatible with the autonomous computer program ~~third-party application~~ determined to be the destination of the instant message; and

transmitting, in response to the translating, the translated request for information to the autonomous computer program ~~third-party application~~, wherein the autonomous computer program ~~third-party application~~ processes the translated request for information, without user intervention.

68 (cancelled)

69 (previously amended): The method of claim 67, wherein the receiving step comprises:

receiving from an instant messaging application an instant message including a request for information.

70 (currently amended): The method of claim 67, further comprising the steps of:

receiving information from the autonomous computer program ~~third-party application~~;

generating an instant message including the received information; and

sending the generated instant message to the instant messaging application.